Name of work: Improvements to Roads and Drains in Muthuraya Swamy layout, Doddabomasandra, Nanjappa layout, Chamundeshwari Layout in ward No. 10,

		Estimate Cost Rs							5500000.00
Sl No	**Description of item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	**Removing and resetting footpath slab** (P.no.256,I no.37.56 of pw, P&IWTDd SR 2018/19)	Sqm							
	Nanjappa Layout 4th Cross		2	340.00		0.30	204.00		
	1st A main road Nanjappa layout (Ballappa Road)		2	160.00		0.30	96.00		
	Nanjappa layout 7th A Cross		2	27.00		0.25	13.50		
	C-ramayya Layout								
	10th Cross Road (RHS)		2	75.00		0.30	45.00		
	9th Cross Road (RHS)		2	75.00		0.25	37.50		
	8th Cross Road (RHS)		2	75.00		0.30	45.00		
	8th C Cross Road (LHS)		2	75.00		0.30	45.00		
	7th Cross Road(RHS)		2	75.00		0.30	45.00		
	10th Cross Road (LHS)		2	25.00		0.25	12.50		
	9th Cross Road (LHS)		2	25.00		0.30	15.00		
	7th Cross Road(LHS)		2	75.00		0.30	45.00		
	6th Cross Road (RHS)		2	75.00		0.25	37.50		
	Chamundeshwari layout 2nd main 4th Cross		2	90.00		0.30	54.00		
	Chamundeshwari layout 2nd main 5th Cross		2	30.00		0.25	15.00		
	1st A main road (Ganesh Gowda House Road)		2	136.00		0.30	81.60		
	Chamundeshwari Layout 5th Main		2	320.00		0.30	192.00		
	1st A main road (Ganesh Gowda House Road)		2	120.00		0.25	60.00		
	1st Main road (Ganesh Temple road) Chamundeshwari nagar		2	100.00		0.30	60.00		
	Approch Roads		2	100.00		0.25	50.00		
							1153.60	**208.82**	**240895.00**
	Basic Rate	197.00							
	Area Weightage @ 6%	11.82							
	Total	**208.82**							
2	KSRRB 300-1. **Earth work excavation** by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 143/ Item No. 19.1/ PWD SR 2018-19	Cum							
	Road Cutting Portion								
	Chamundeshwari Layout 5th Main		1	320.00	0.45	0.30	43.20		

	Nanjappa layout 4th Cross		1	340.00	0.50	0.30	51.00		
							94.20	**137.80**	**12981.00**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
3	KSRRB 300-51: making 50mm x 50mm furrows at 450 to the centre line of the road and at one meters interval in the existing thin bituminous wearing course including sweeping, taking out old materials, stacking the debris within a lead of 100 meters cost of all labour charges complete as per specifications. MORTH chapter 3, No. 146/ Item No. 19.57/ PWD SR 2018-19	Sqm							
	Cleaning of Existing Road Surface								
	Nanjappa Layout 4th Cross		1	340.00	5.00		1700.00		
	1st A main road Nanjappa layout (Ballappa Road)		1	160.00	5.00		800.00		
	Nanjappa layout 7th A Cross		1	27.00	5.00		135.00		
	C-ramayya Layout								
	10th Cross Road (RHS)		1	75.00	5.00		375.00		
	9th Cross Road (RHS)		1	75.00	5.00		375.00		
	8th Cross Road (RHS)		1	75.00	5.00		375.00		
	8th C Cross Road (LHS)		1	75.00	5.00		375.00		
	7th Cross Road(RHS)		1	75.00	5.00		375.00		
	10th Cross Road (LHS)		1	25.00	5.00		125.00		
	9th Cross Road (LHS)		1	25.00	5.00		125.00		
	7th Cross Road(LHS)		1	75.00	5.00		375.00		
	6th Cross Road (RHS)		1	75.00	5.00		375.00		
	Chamundeshwari layout 2nd main 4th Cross		1	90.00	5.00		450.00		
	Chamundeshwari layout 2nd main 5th Cross		1	30.00	5.00		150.00		
	1st A main road (Ganesh Gowda House Road)		1	136.00	5.00		680.00		
	Chamundeshwari Layout 5th Main		1	320.00	5.00		1600.00		
	1st A main road (Ganesh Gowda House Road)		1	120.00	5.00		600.00		
	1st Main road (Ganesh Temple road) Chamundeshwari nagar		1	100.00	5.00		500.00		
	Approch Roads		1	100.00	5.00		500.00		
							9990.00	**5.30**	**52947.00**
	Basic Rate	5.00							
	Area Weightage @ 6%	0.30							
	Total	**5.30**							
4	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH	Cum							

	specification NO. 406,P No. 155/ Item No. 20.18/ PWD SR 2018-19								
	Chamundeshwari Layout 5th Main		1	320.00	0.45	0.23	33.12		
	Nanjappa layout 4th Cross		1	340.00	0.50	0.23	39.10		
							72.22	**2001.28**	**144532.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
5	KSRRB 500-4: providing and applying **primer coat** from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specificationsDo- Medium Porosity MORTH chapter 5, No. 158/ Item No. 21.6/ PWD SR 2018-19	Sqm							
	Chamundeshwari Layout 5th Main		1	320.00	0.45		144.00		
	Nanjappa layout 4th Cross		1	340.00	0.50		170.00		
							314.00	**36.04**	**11317.00**
	Basic Rate	34.00							
	Area Weightage @ 6%	2.04							
	Total	**36.04**							
	KSRRB 500-11. Providing and laying **bituminous macadam** on Prepared Surface with crushed Coarse aggregates as per Design mix formulae for base/binding course including loading of aggregates with F.E loader,Hot mixing of Stone aggregates and bitumen in Hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve desired density, but excluding cost of primer/Tack coat including lead, lift and cost of all materials, labour HOM of machinaries complete as per Specifications. MORTH Ch 5. using 40/60 TPH capacity HMP with Mechanical paver Gr-II (50mm - 75mm) with 3.4% VG-30 bitumen. Item no:21.11.6								
	Chamundeshwari Layout 5th Main		1	320.00	0.45	0.05	7.20		
	Nanjappa layout 4th Cross		1	340.00	0.50	0.05	8.50		
							15.70	**6172.38**	**96906.00**
	Basic Rate	5823.00							
	Area Weightage @ 6%	349.38							

	Total	**6172.38**							
6	KSRRB M500-10. Tack Coat:- Providing and applying **tack coat** using 80/100 grade bitumen (VG 10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the existing prepared bituminous surface cleaned with mechancial broom. complete as per specifications. MORTH Specification No. 503 (P-159, Item.no 21.10).								
	Nanjappa Layout 4th Cross		1	340.00	5.00		1700.00		
	1st A main road Nanjappa layout (Ballappa Road)		1	160.00	5.00		800.00		
	Nanjappa layout 7th A Cross		1	27.00	5.00		135.00		
	C-ramayya Layout								
	10th Cross Road (RHS)		1	75.00	5.00		375.00		
	9th Cross Road (RHS)		1	75.00	5.00		375.00		
	8th Cross Road (RHS)		1	75.00	5.00		375.00		
	8th C Cross Road (LHS)		1	75.00	5.00		375.00		
	7th Cross Road(RHS)		1	75.00	5.00		375.00		
	10th Cross Road (LHS)		1	25.00	5.00		125.00		
	9th Cross Road (LHS)		1	25.00	5.00		125.00		
	7th Cross Road(LHS)		1	75.00	5.00		375.00		
	6th Cross Road (RHS)		1	75.00	5.00		375.00		
	Chamundeshwari layout 2nd main 4th Cross		1	90.00	5.00		450.00		
	Chamundeshwari layout 2nd main 5th Cross		1	30.00	5.00		150.00		
	1st A main road (Ganesh Gowda House Road)		1	136.00	5.00		680.00		
	Chamundeshwari Layout 5th Main		1	320.00	5.00		1600.00		
	1st A main road (Ganesh Gowda House Road)		1	120.00	5.00		600.00		
	1st Main road (Ganesh Temple road) Chamundeshwari nagar		1	100.00	5.00		500.00		
	Approch Roads		1	100.00	5.00		500.00		
							9990.00	**12.72**	**127073.00**
	Basic Rate	12.00							
	Area Weightage @ 6%	0.72							
	Total	**12.72**							
7	KSRRB M500-19: providing and laying **bituminous concrete** 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH specification 30-	**Cum**							

	45mm compacted thicikness (GradingII) With 6% bitumen 80/100, No. 161/ Item No. 21.22.1/ PWD SR 2018-19								
	Nanjappa Layout 4th Cross		1	340.00	5.00	0.04	68.00		
	1st A main road Nanjappa layout (Ballappa Road)		1	160.00	5.00	0.04	32.00		
	Nanjappa layout 7th A Cross		1	27.00	5.00	0.04	5.40		
	C-ramayya Layout								
	10th Cross Road (RHS)		1	75.00	5.00	0.04	15.00		
	9th Cross Road (RHS)		1	75.00	5.00	0.04	15.00		
	8th Cross Road (RHS)		1	75.00	5.00	0.04	15.00		
	8th C Cross Road (LHS)		1	75.00	5.00	0.04	15.00		
	7th Cross Road(RHS)		1	75.00	5.00	0.04	15.00		
	10th Cross Road (LHS)		1	25.00	5.00	0.04	5.00		
	9th Cross Road (LHS)		1	25.00	5.00	0.04	5.00		
	7th Cross Road(LHS)		1	75.00	5.00	0.04	15.00		
	6th Cross Road (RHS)		1	75.00	5.00	0.04	15.00		
	Chamundeshwari layout 2nd main 4th Cross		1	90.00	5.00	0.04	18.00		
	Chamundeshwari layout 2nd main 5th Cross		1	30.00	5.00	0.04	6.00		
	1st A main road (Ganesh Gowda House Road)		1	136.00	5.00	0.04	27.20		
	Chamundeshwari Layout 5th Main		1	320.00	5.00	0.04	64.00		
	1st A main road (Ganesh Gowda House Road)		1	120.00	5.00	0.04	24.00		
	1st Main road (Ganesh Temple road) Chamundeshwari nagar		1	100.00	5.00	0.04	20.00		
	Approch Roads		1	100.00	5.00	0.04	20.00		
							399.60		
	For profile correction (10% of total quantity)						**39.96**		
							439.56	**8869.02**	**3898466.00**
	Basic Rate	8367.00							
	Area Weightage @ 6%	502.02							
	Total	**8869.02**							
8	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No 181., I.No.24.15 of KPWD S.R 2018-19).	Sqm							

	Nanjappa Layout 4th Cross		2.5	340.00	0.10		85.00		
	1st A main road Nanjappa layout (Ballappa Road)		2.5	160.00	0.10		40.00		
	Nanjappa layout 7th A Cross		2.5	27.00	0.10		6.75		
	C-ramayya Layout								
	10th Cross Road (RHS)		2.5	75.00	0.10		18.75		
	9th Cross Road (RHS)		2.5	75.00	0.10		18.75		
	8th Cross Road (RHS)		2.5	75.00	0.10		18.75		
	8th C Cross Road (LHS)		2.5	75.00	0.10		18.75		
	7th Cross Road(RHS)		2.5	75.00	0.10		18.75		
	10th Cross Road (LHS)		2.5	25.00	0.10		6.25		
	9th Cross Road (LHS)		2.5	25.00	0.10		6.25		
	7th Cross Road(LHS)		2.5	75.00	0.10		18.75		
	6th Cross Road (RHS)		2.5	75.00	0.10		18.75		
	Chamundeshwari layout 2nd main 4th Cross		2.5	90.00	0.10		22.50		
	Chamundeshwari layout 2nd main 5th Cross		2.5	30.00	0.10		7.50		
	1st A main road (Ganesh Gowda House Road)		2.5	136.00	0.10		34.00		
	Chamundeshwari Layout 5th Main		2.5	320.00	0.10		80.00		
	1st A main road (Ganesh Gowda House Road)		2.5	120.00	0.10		30.00		
	1st Main road (Ganesh Temple road) Chamundeshwari nagar		2.5	100.00	0.10		25.00		
	Approch Roads		2.5	100.00	0.10		25.00		
							499.50	**454.74**	**227143.00**
	Basic Rate	429.00							
	Area Weightage @ 6%	25.74							
	Total	**454.74**							
							Grand Total		**4812260.00**
9	For 12% Applicable GST								**577471.00**
10	For 2% PMC Charges								**96245.00**
11	Miscesallaneous Charges								**14024.00**
									5500000.00

Swetha N K
AE W10

Technical Sanction
Accorded For RSS & Waste only
Head of A/C P-311
CER NO :..312..... Dt:07.03.19

TA CE (YNK)